

PRINTER RUSH
(PTO ASSISTANCE)

Application : 10/621,644 Examiner : T.A. Beach GAU : 3671
From : S. Winslow Location : IDC FMF FDC Date : 1-25-06

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[RUSH] MESSAGE: Paragraph 0019 of specification (p. 5)
lists a description of Fig. 3b instead
of Fig. 3c.

Please advise
Thanks

[XRUSH] RESPONSE: Corrected.

INITIALS: SBH

[0018] Figure 3b is a side cutaway view of the hoist or drag drum of Fig. 3a taken along the line 3b - 3b.

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[0019] Figure 3^c is a side cutaway view of an alternate embodiment of a hoist or drag drum coupled to a direct drive ring motor.

[0020] Figure 4 is a typical circuit diagram including both an active front end and inverter circuit for driving the direct drive motors.

[0021] Figure 5 is a circuit diagram of an Insulated Gate Bipolar Transistor (IGBT) Active Front End (AFE) circuit.

[0022] Figure 6 is a flow diagram illustrating a control circuit for the IGBT AFE circuit of Fig. 5.

[0023] Figure 7 is a block diagram of control circuit components and communication network for a dragline mining system.

[0024] Figure 8 is a block diagram of the IGBT AFE and Inverter circuits as controlled by the controller of Fig. 7.

[0025] Figure 9 is a top view of the components provided on a floor of the machinery house of Fig. 1 in a second embodiment of the invention.

[0026] Fig. 10 is a block diagram of a control circuit for a dragline making system as shown in Fig. 9.

DETAILED DESCRIPTION OF THE INVENTION

[0027] Referring now to the figures, and more particularly to FIG. 1, a portion of a dragline excavating machine 1 is shown. The machine consists of a base 2, which rests upon the ground and supports machinery house 3. The machinery house 3 has a boom 4 projecting upwardly from the lower front of the house 3, the boom 4 having its foot connected to the house by foot pins 5. The boom is held at the desired angle of inclination by means of pendants 6 extending from the boom to a gantry 7 mounted on top of the house 3. A bucket